

FIG.1

10 ELECTRONIC CAMERA

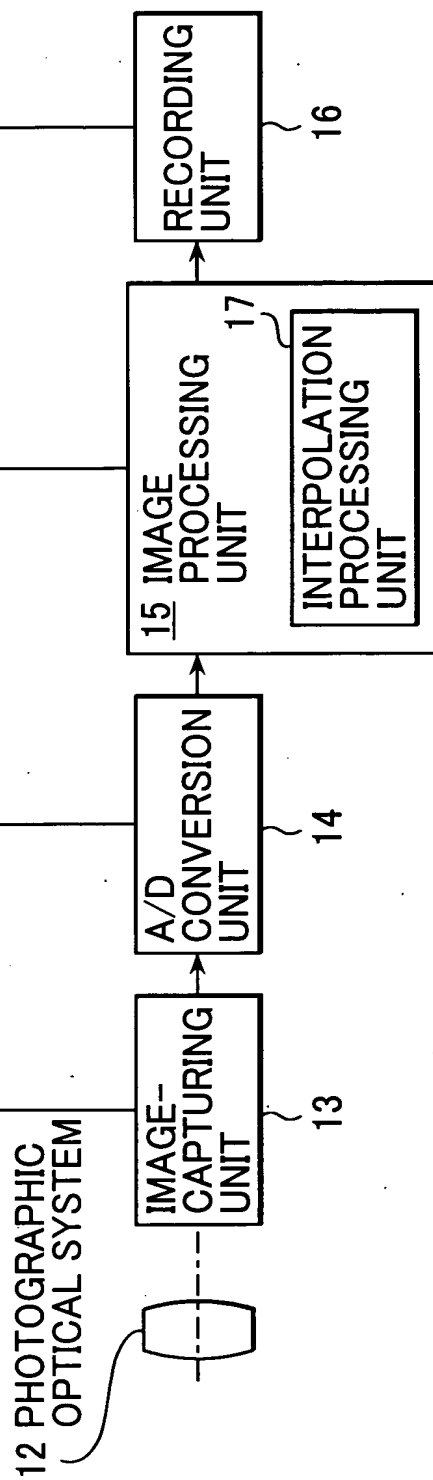


FIG.2A

COORDINATES [i,j]	i-3	i-2	i-1	i	i+1	i+2	i+3
j-3	B	G	B	G	B	G	B
j-2	G	R	G	R	G	R	G
j-1	B	G	B	G	B	G	B
j	G	R	G	<b>R</b>	G	R	G
j+1	B	G	B	G	B	G	B
j+2	G	R	G	R	G	R	G
j+3	B	G	B	G	B	G	B

FIG.2B

COORDINATES [i,j]	i-3	i-2	i-1	i	i+1	i+2	i+3
j-3	R	G	R	G	R	G	R
j-2	G	B	G	B	G	B	G
j-1	R	G	R	G	R	G	R
j	G	B	G	<b>B</b>	G	B	G
j+1	R	G	R	G	R	G	R
j+2	G	B	G	B	G	B	G
j+3	R	G	R	G	R	G	R

# FIG.3A

COORDINATES [ i, j ]	i-2	i-1	i	i+1	i+2
j-2	R	G	R	G	R
j-1	B	G	B	G	B
j	R	G	<b>R</b>	G	R
j+1	B	G	B	G	B
j+2	R	G	R	G	R

# FIG.3B

COORDINATES [ i, j ]	i-2	i-1	i	i+1	i+2
j-2	B	G	B	G	B
j-1	R	G	R	G	R
j	B	G	<b>B</b>	G	B
j+1	R	G	R	G	R
j+2	B	G	B	G	B

# FIG.4

HV[ i, j ] : INDEX USED TO INDICATE VERTICAL AND HORIZONTAL SIMILARITY  
 DN[ i, j ] : INDEX USED TO INDICATE DIAGONAL SIMILARITY  
 Gv, Gv45, Gv135, Gh, Gh45, Gh135 : VALUES CALCULATED THROUGH FORMULAE 43~48

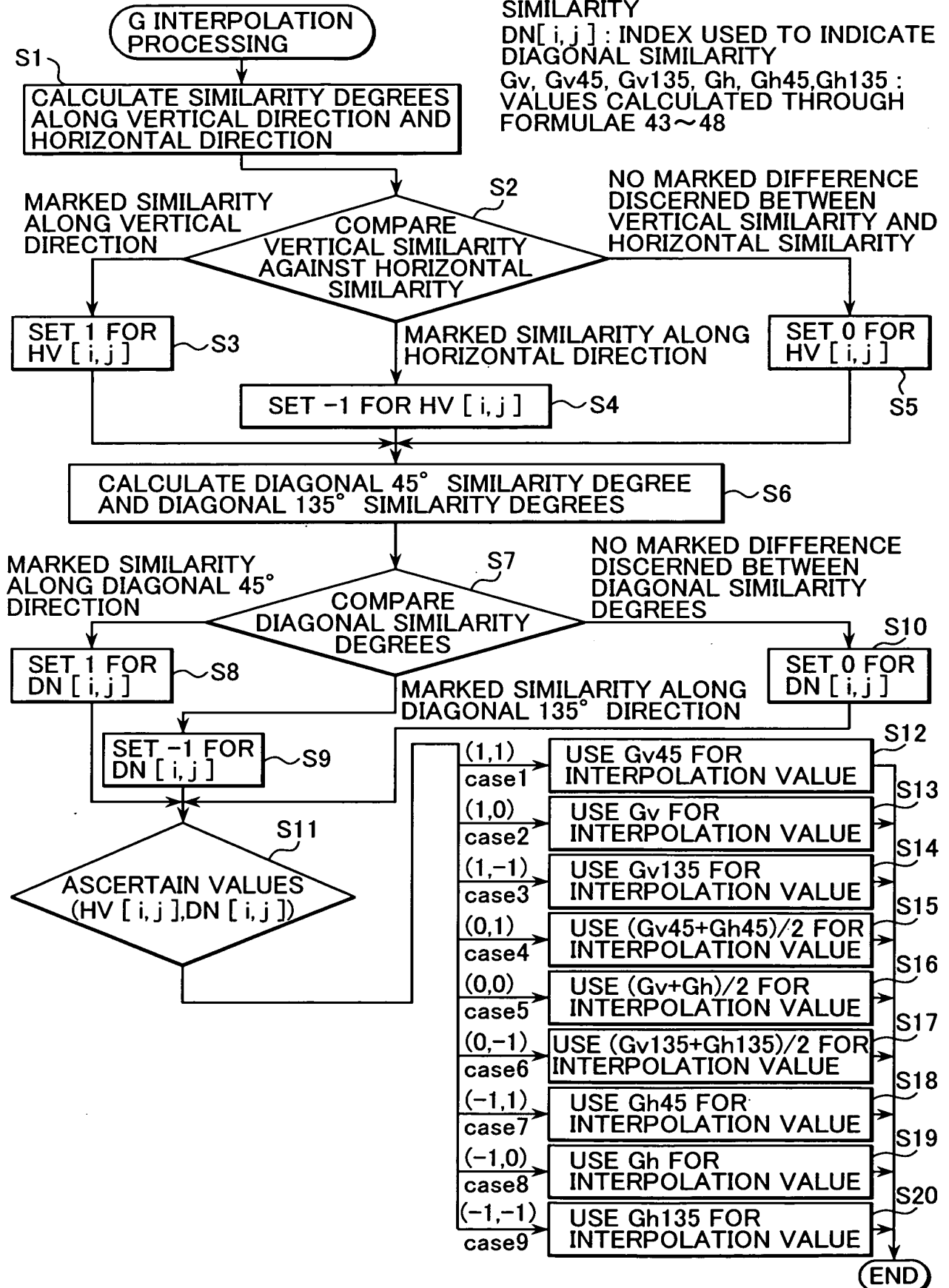
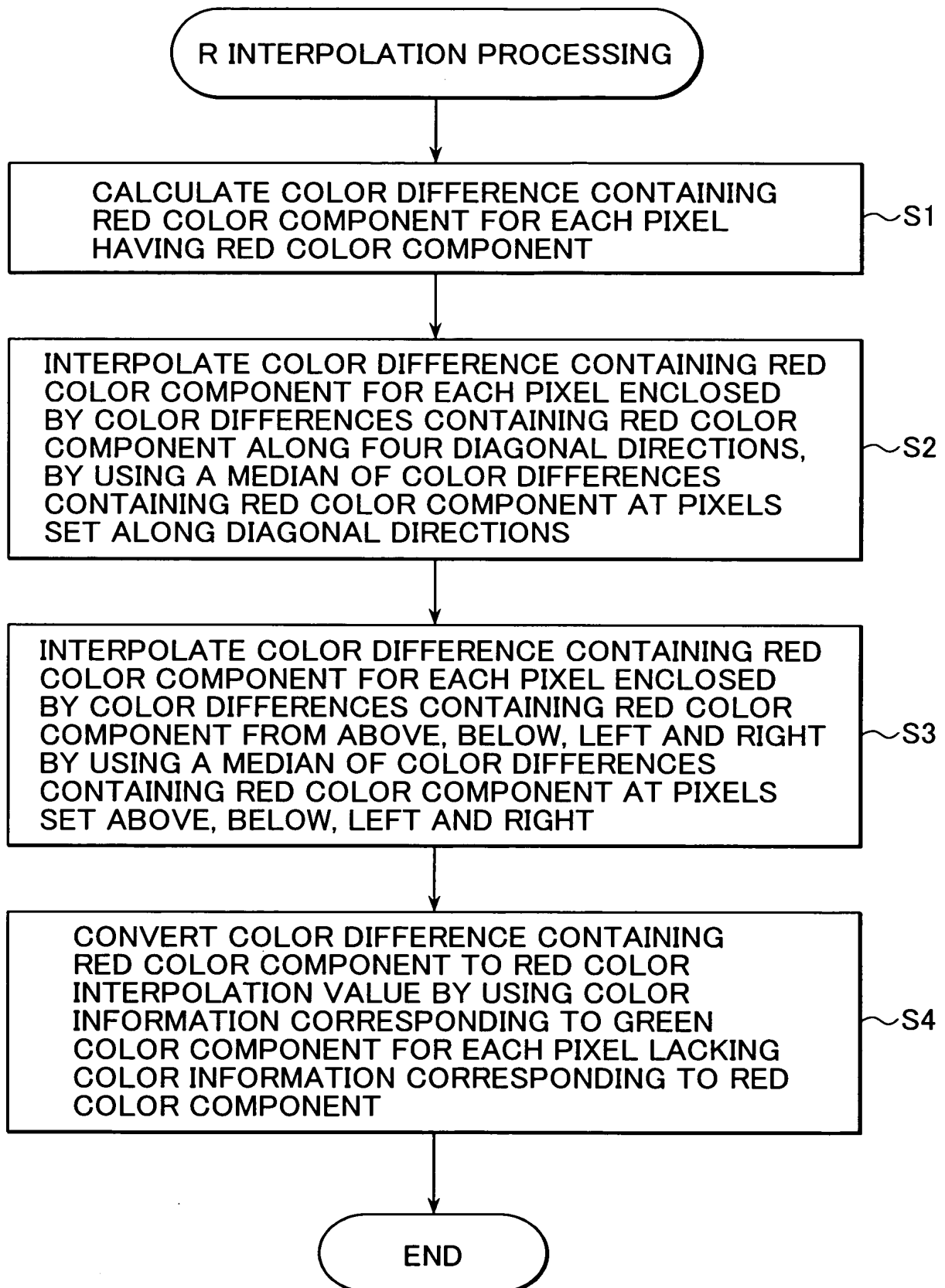


FIG.5



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FIG.6A

1		1
	4	
1		1

× 1/8

WEIGHTED ADDITION OF  
SIMILARITY DEGREE  
COMPONENTS IN METHOD 1

FIG.6B

		1		
	2		2	
1		4		1
	2		2	
		1		

× 1/16

WEIGHTED ADDITION OF  
SIMILARITY DEGREE  
COMPONENTS IN METHOD 2

FIG.7

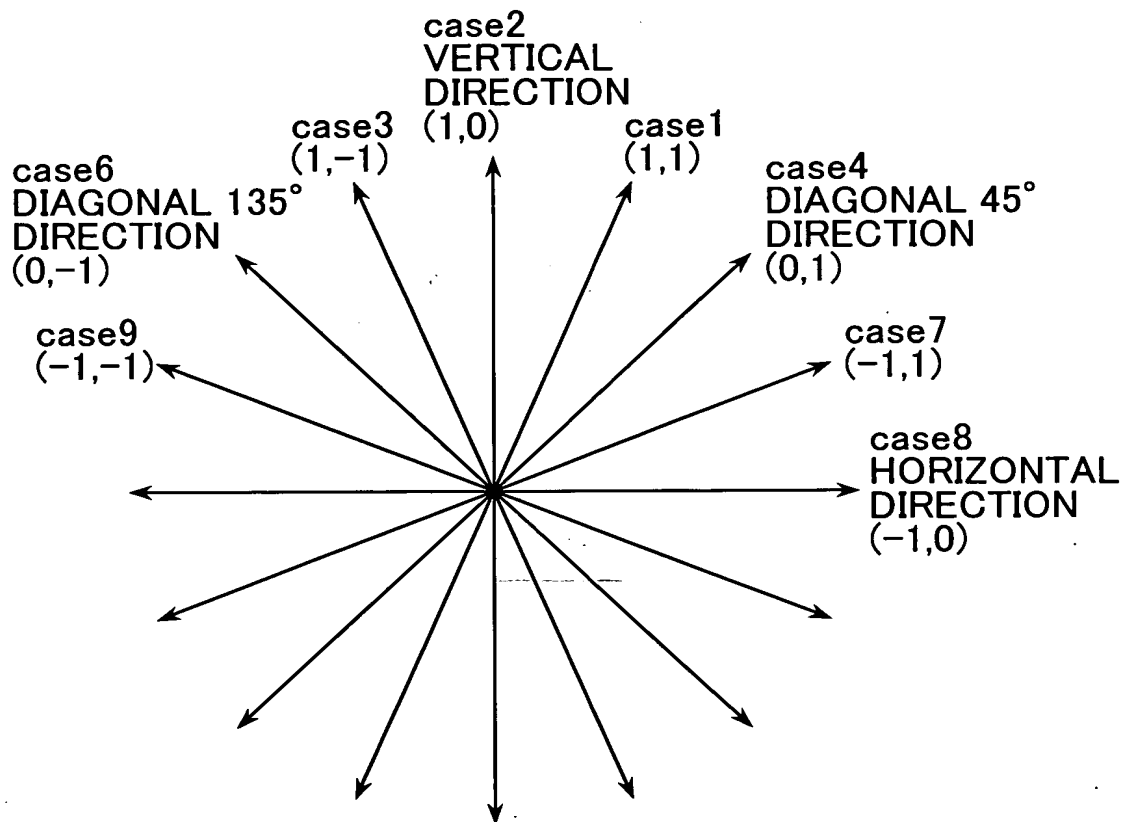
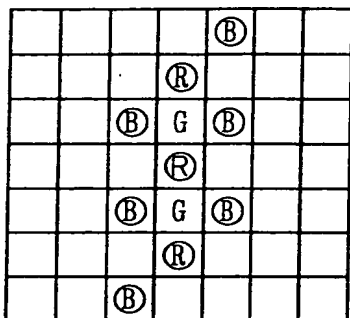
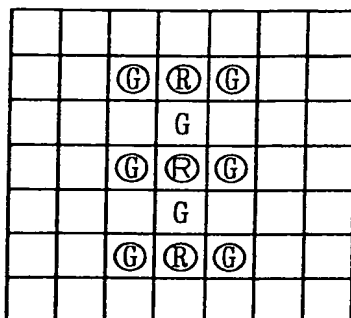


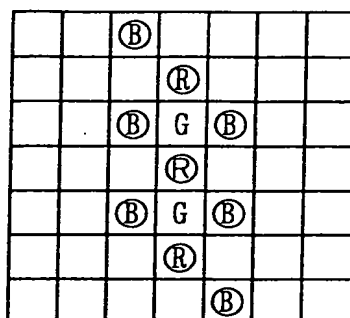
FIG.8



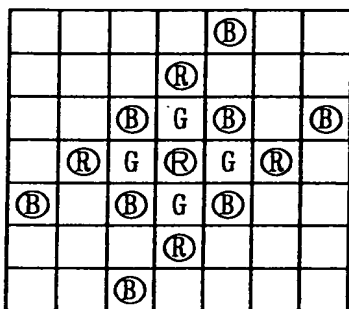
case1 : (HV,DN)=(1,1)



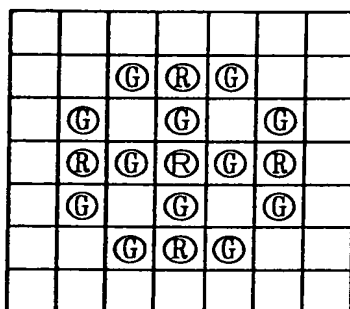
case2 : (HV,DN)=(1,0)



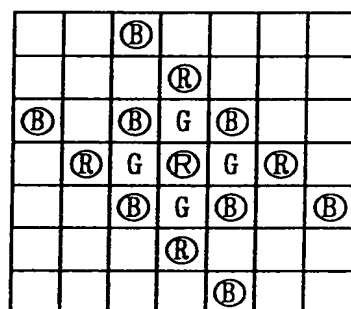
case3 : (HV,DN)=(1,-1)



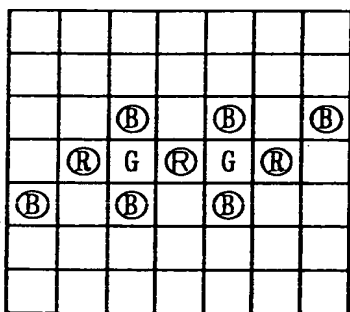
case4 : (HV,DN)=(0,1)



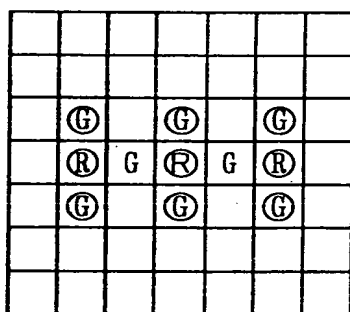
case5 : (HV,DN)=(0,0)



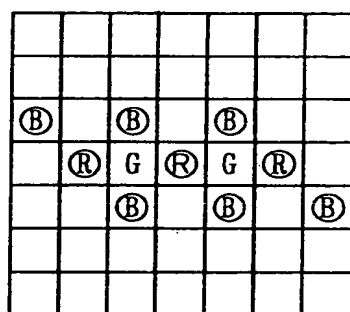
case6 : (HV,DN)=(0,-1)



case7 : (HV,DN)=(-1,1)



case8 : (HV,DN)=(-1,0)



case9 : (HV,DN)=(-1,-1)

FIG.9A

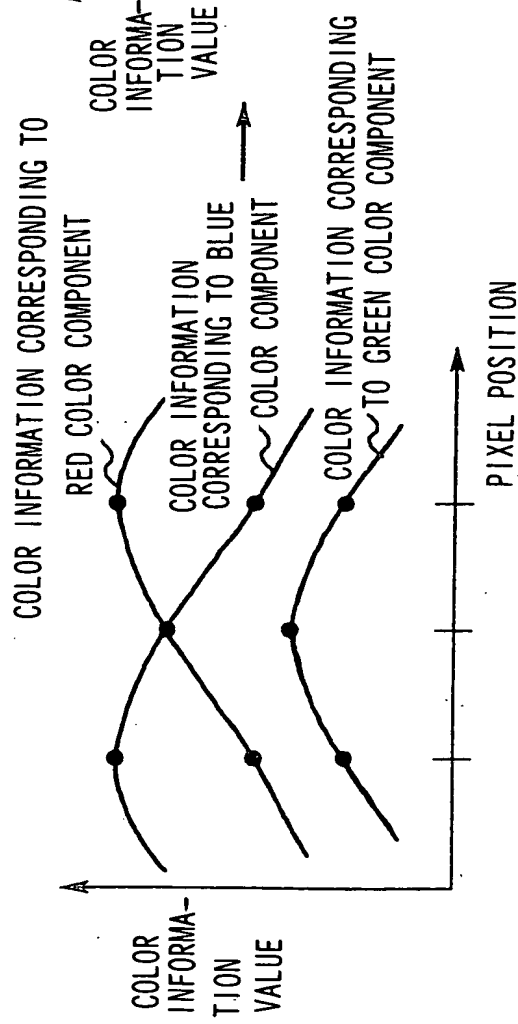


FIG.9B

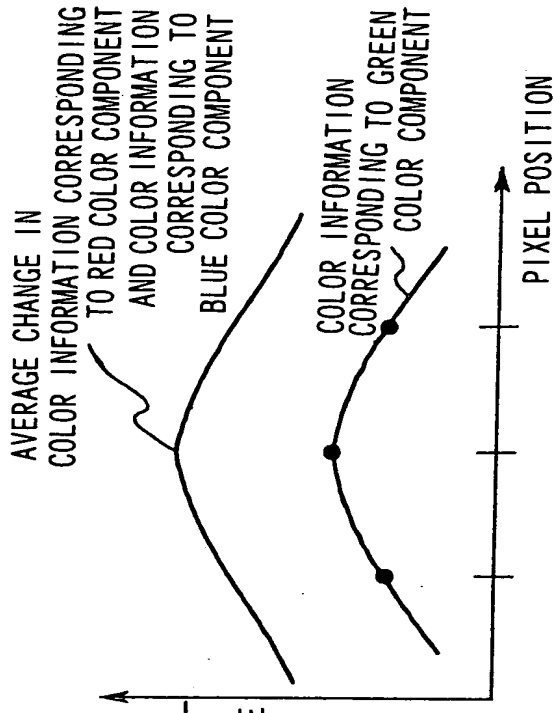




FIG.10A

Y	O	Y
Δ	x	Δ
Y	O	Y

FIG.10B

Cr	O	Cr
Δ	x	Δ
Cr	O	Cr

FIG.10C

Cb	O	Cb
Δ	x	Δ
Cb	O	Cb

FIG.11A

COORDINATES [m,n]	m-1	m	m+1
n-1	Cr		Cr
n		x	
n+1	Cr		Cr

FIG.11B

COORDINATES [m,n]	m-1	m	m+1
n-1		Cr	
n	Cr	x	Cr
n+1		Cr	

FIG.12A

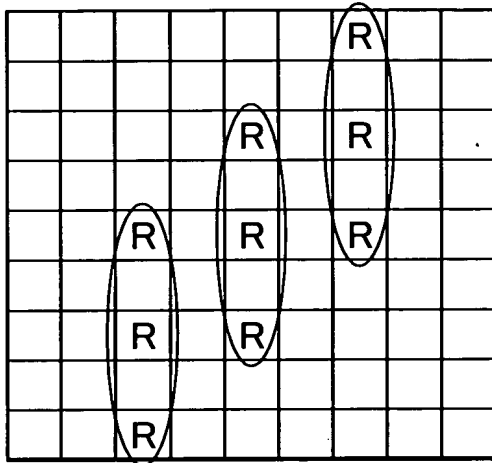
Cr		Cr
	×	
Cr	○	Cr
	×	
Cr		Cr

FIG.12B

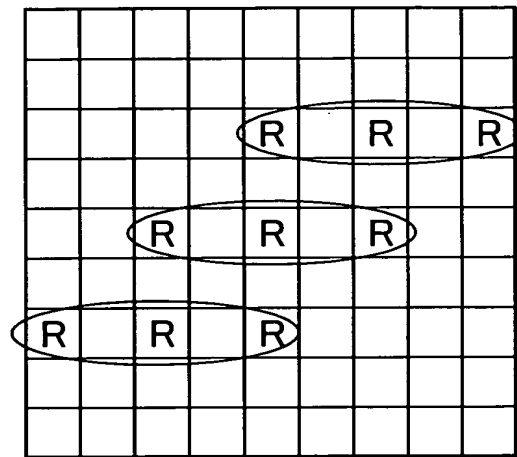
Cr		Cr		Cr
	×	△	×	
Cr		Cr		Cr

FIG.13

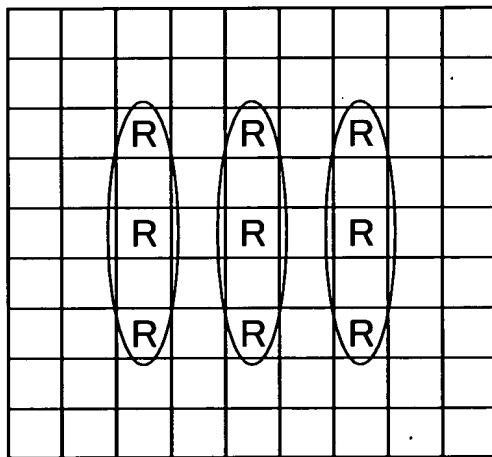
RED COLOR COMPONENT



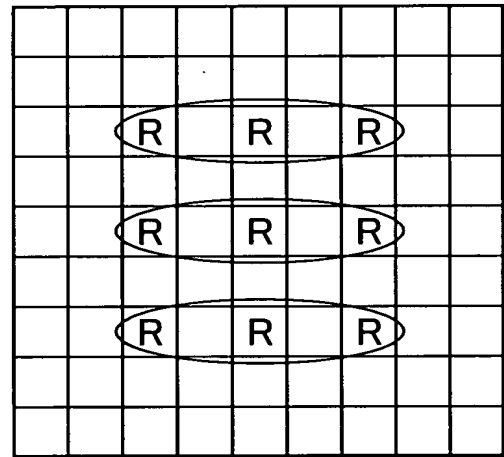
$\delta Rv45$



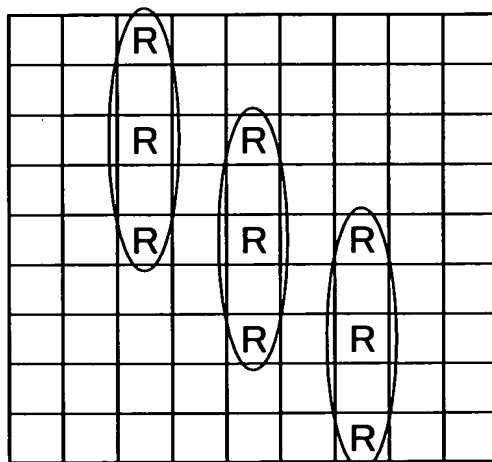
$\delta Rh45$



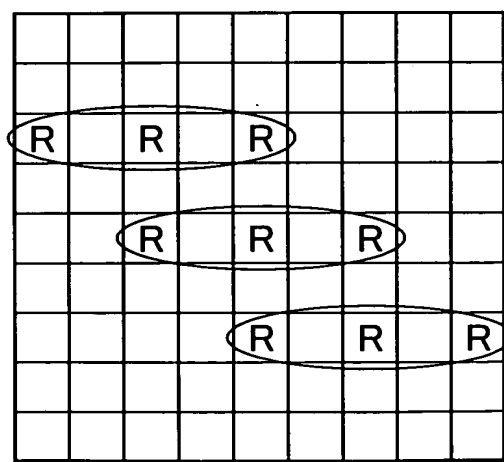
$\delta Rv$



$\delta Rh$



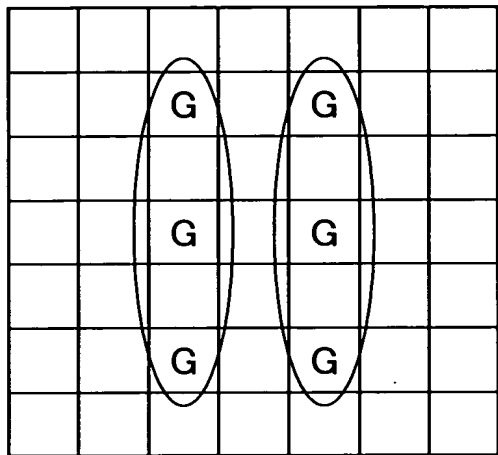
$\delta Rv135$



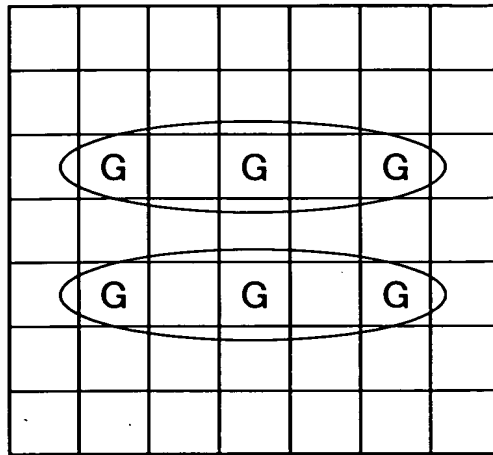
$\delta Rh135$

# FIG.14

## GREEN COLOR COMPONENT

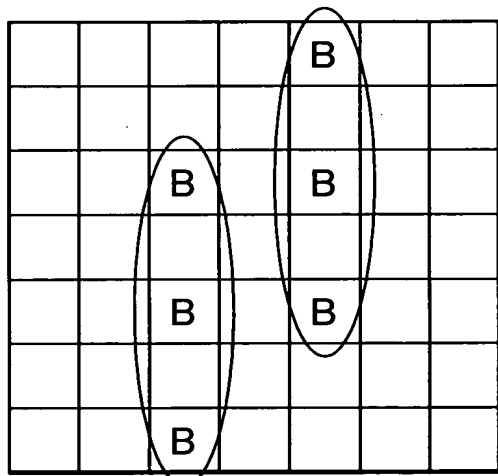


$\delta$  Gv

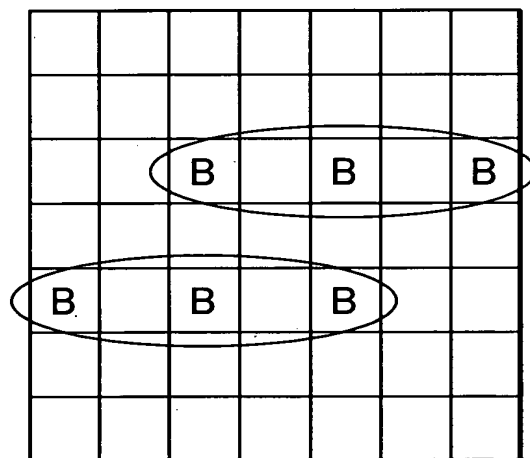


$\delta$  Gh

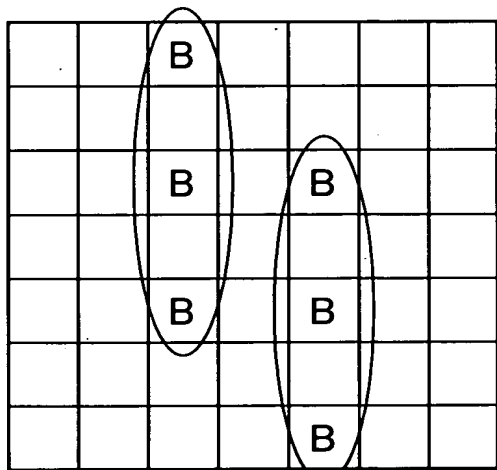
## BLUE COLOR COMPONENT



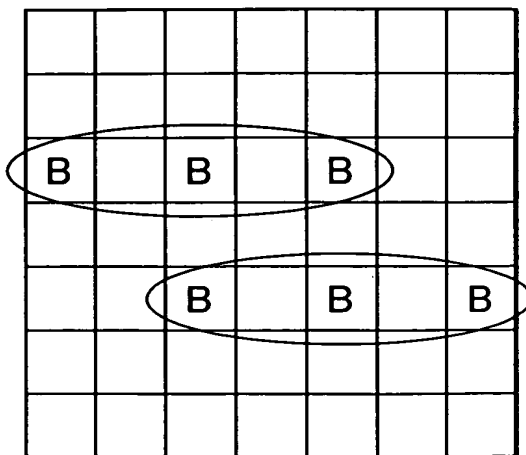
$\delta$  Bv45



$\delta$  Bh45

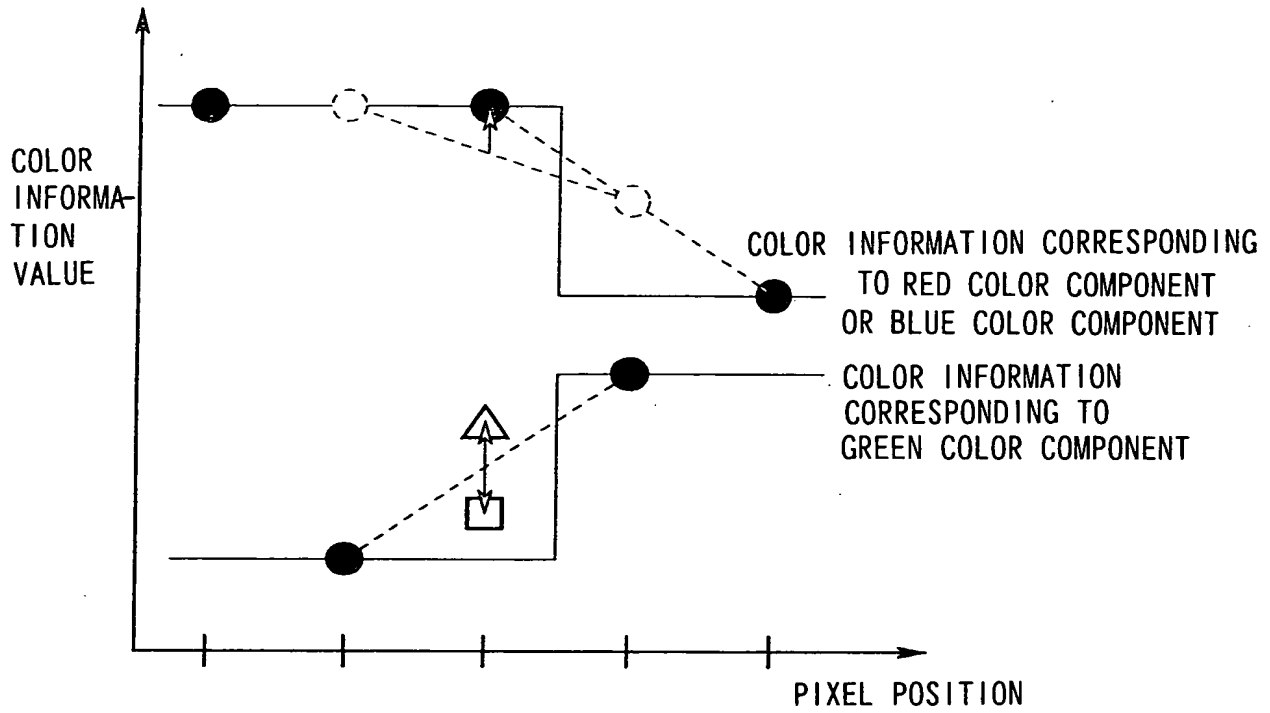


$\delta$  Bv135



$\delta$  Bh135

FIG.15



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FIG.16

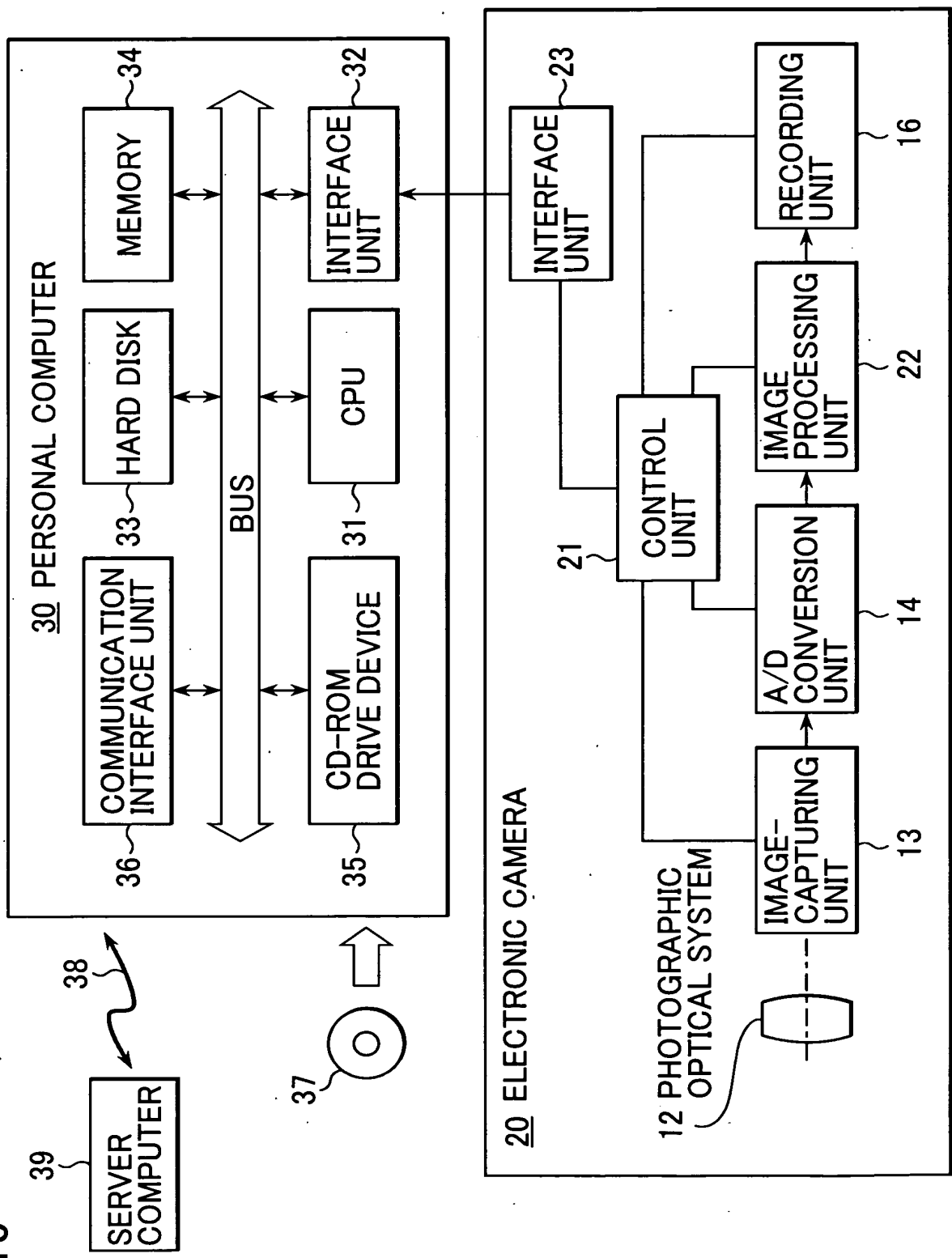
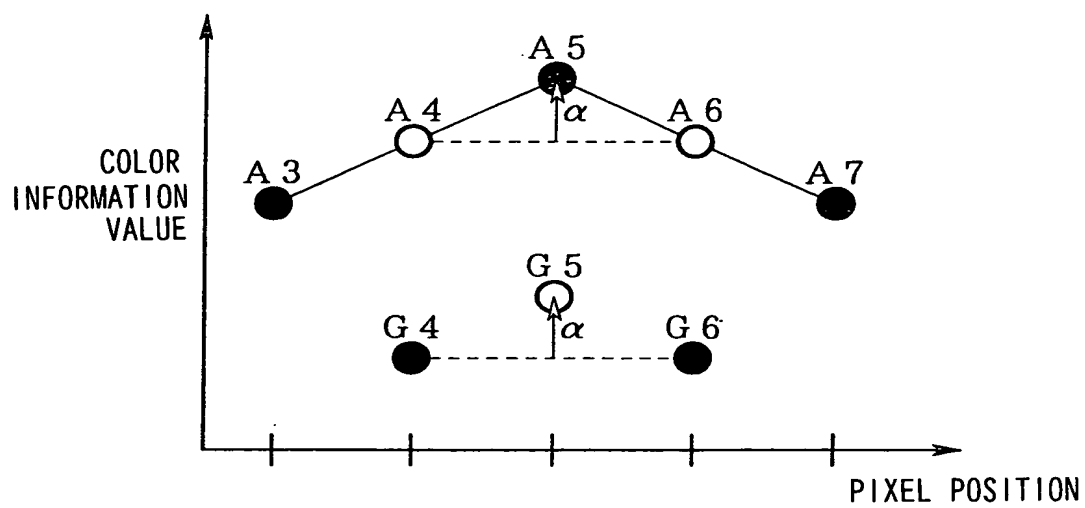


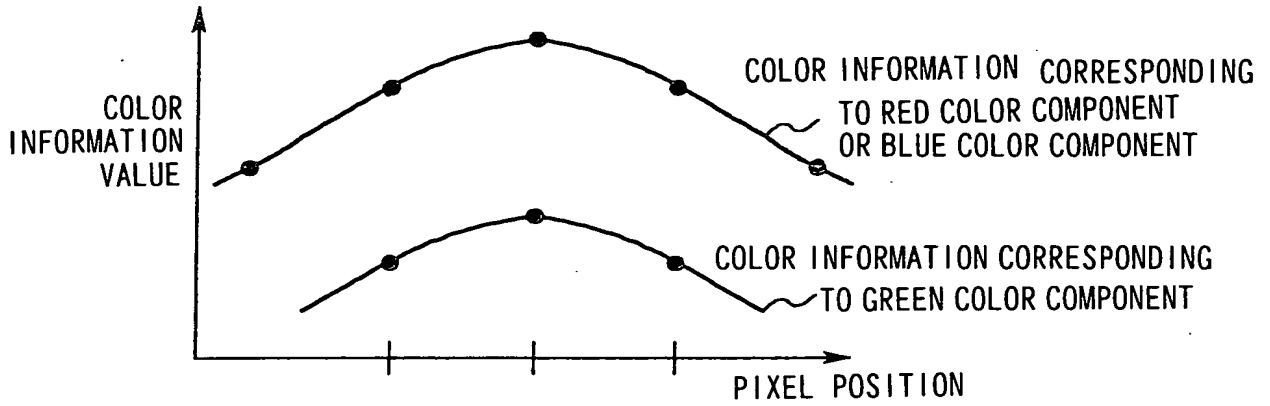
FIG.17



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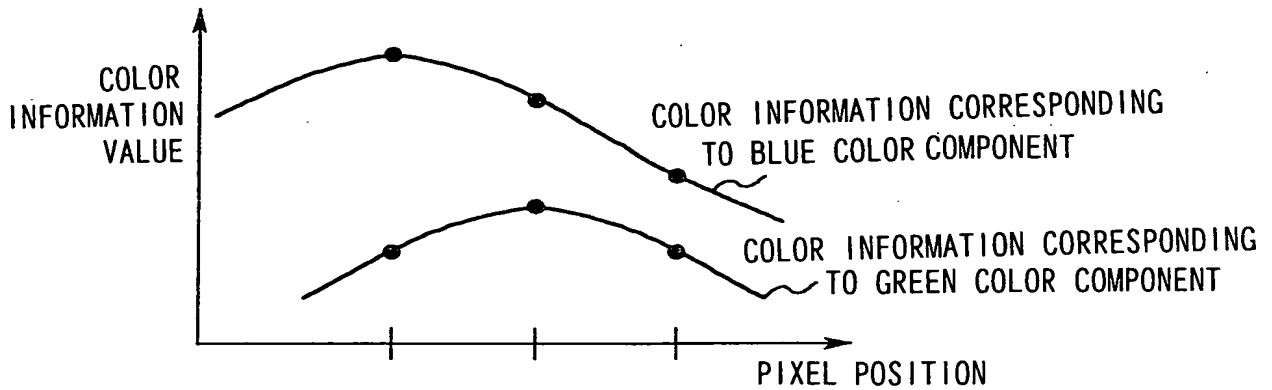


FIG.18A



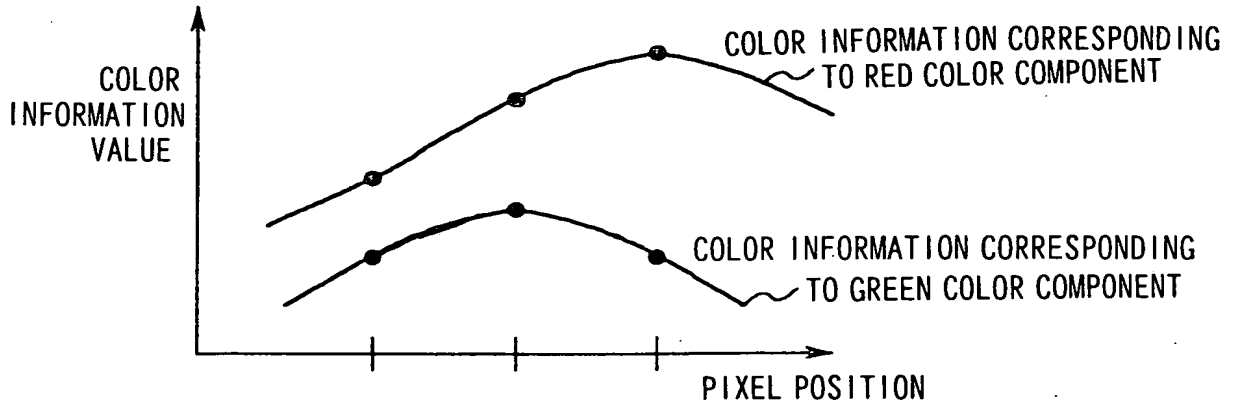
WHEN THERE IS NO MAGNIFICATION CHROMATIC ABERRATION

FIG.18B



WHEN THERE IS MAGNIFICATION CHROMATIC ABERRATION

FIG.18C



WHEN THERE IS MAGNIFICATION CHROMATIC ABERRATION

FIG. 19A

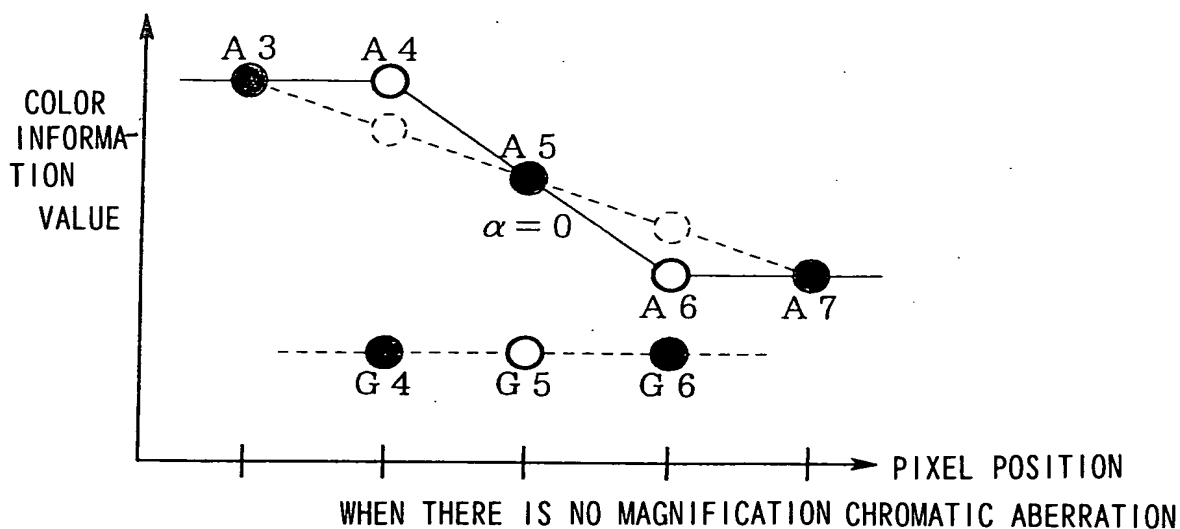


FIG. 19B

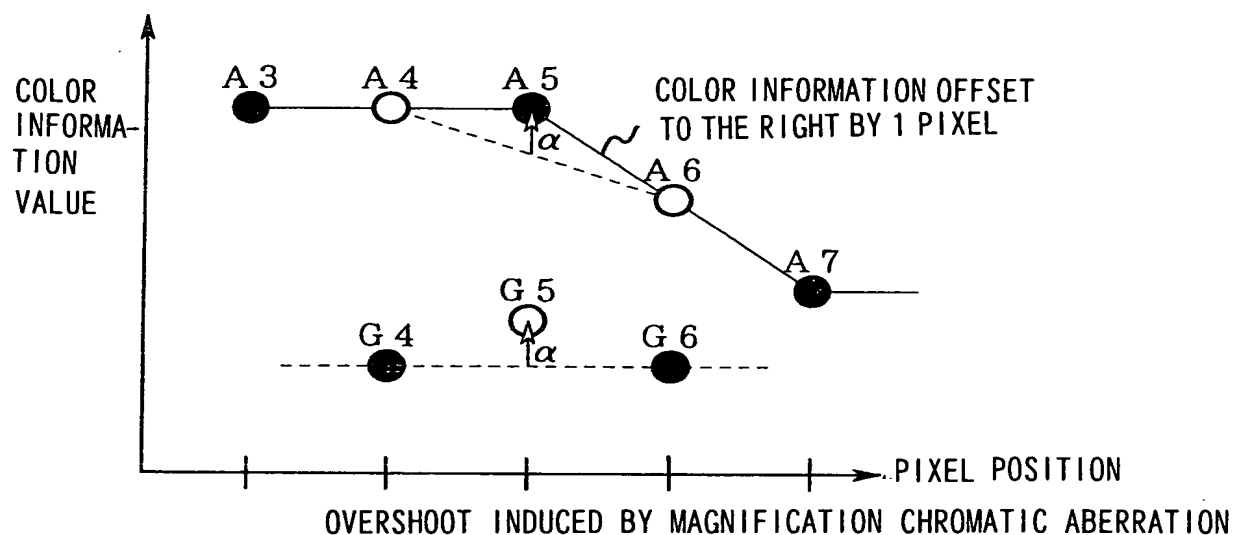


FIG. 19C

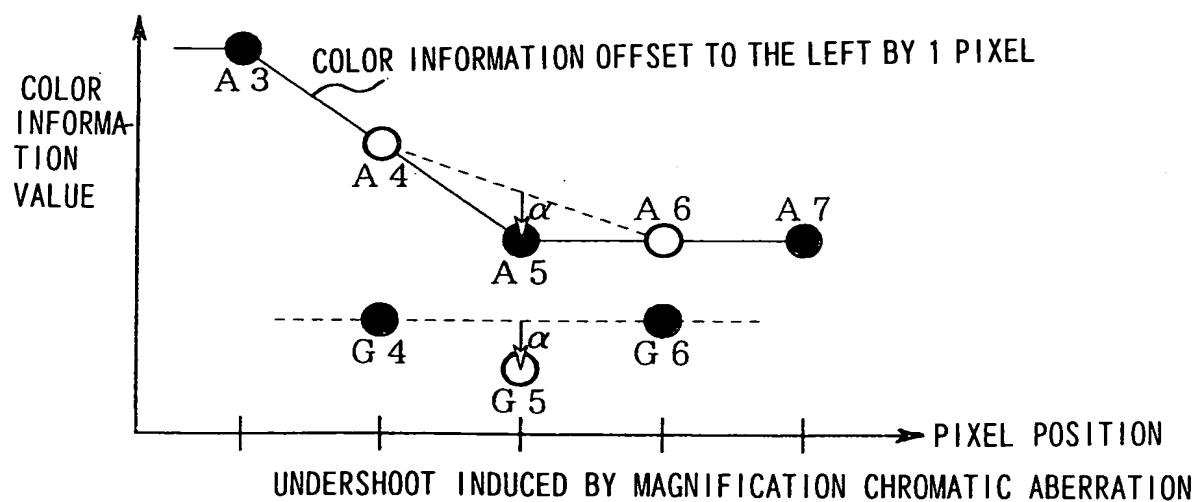


FIG.20A

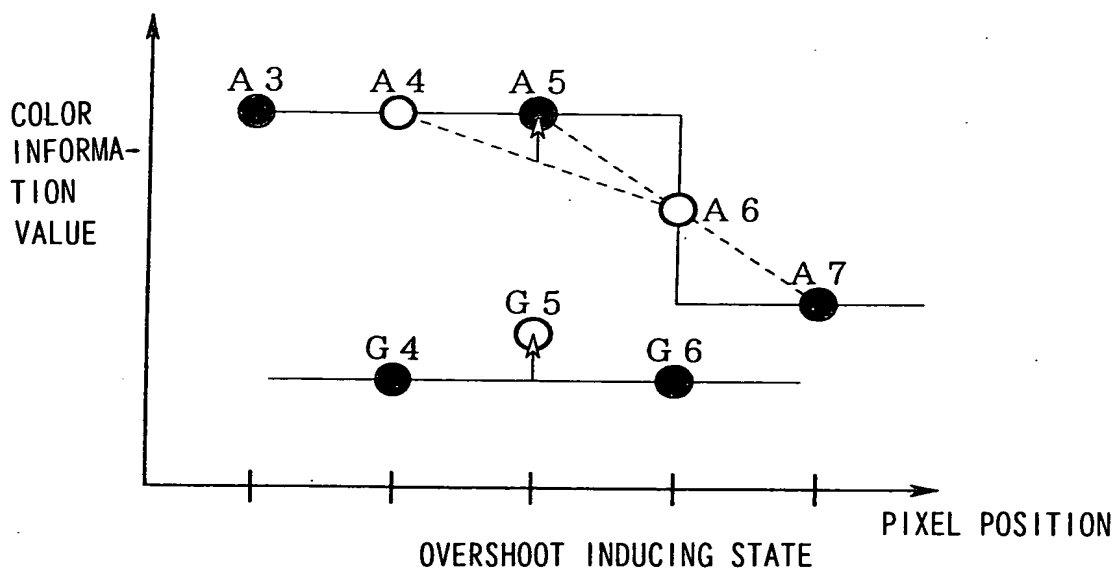


FIG.20B

